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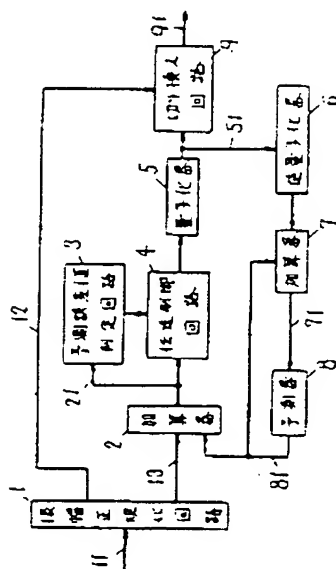
APPLICATION DATE : 20-12-88
APPLICATION NUMBER : 63321192

APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

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TITLE : PICTURE ENCODER AND PICTURE DECODER



ABSTRACT : PURPOSE: To obtain a high compression ratio by obtaining a predicted error and controlling the amplitude of an input picture and to minimize the deterioration of an S/N regardless of the amplitude of a picture input signal by executing the optimum quantization.

CONSTITUTION: An input signal 11 having a picture signal value is normalized in an amplitude normalization circuit 1, inputted to a switching circuit 9 as normalized information 12, and inputted to an adder 2 as a normalized picture output signal 13. The adder 2 calculates the difference between the inputted signal 13 and a predicted value and inputs a predicted error signal value to a predicted error detecting circuit 3 as a signal 21. In the circuit 3, the inputted predicted error signal value is compared with a previously determined threshold, and the compared result is outputted to a transmission control circuit 4. In the circuit 4, only when the predicted error is larger than the threshold, the predicted error signal value is outputted to a quantizer 5 and quantized by a predicted method, and the quantized signal 51 is outputted. In the switching device 9, the signal 51 and the normalized information signal 12 are inputted, and both the signals are switched in constant timing and outputted as an encoded picture signal 91.

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